

## EAST Search History

| Ref # | Hits   | Search Query  | DBs                          | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|------------------------------|------------------|---------|------------------|
| S1    | 636    | (136/251).CCLS.   | USPAT;<br>USOCR              | OR               | OFF     | 2006/09/28 09:06 |
| S2    | 405    | "136"/\$.ccls. and frame and panel  | USPAT                        | AND              | ON      | 2006/09/28 10:20 |
| S3    | 28     | "136"/\$.ccls. and frame and rib  | USPAT                        | OR               | OFF     | 2006/09/28 09:09 |
| S4    | 0      | "136"/\$.ccls. and "elastomer frame"                                      | USPAT                        | OR               | OFF     | 2006/09/28 10:18 |
| S5    | 0      | "136"/\$.ccls. and "elastomer panel"                                      | USPAT                        | OR               | ON      | 2006/09/28 10:20 |
| S6    | 405    | "136"/\$.ccls. and frame and panel  | USPAT                        | AND              | ON      | 2006/09/28 10:20 |
| S7    | 14     | S6 and elastomer  | USPAT                        | AND              | ON      | 2006/09/28 10:39 |
| S8    | 133667 | S6 and polypropylene or polystyrene                                       | USPAT                        | AND              | ON      | 2006/09/28 10:43 |
| S9    | 22     | S6 and polypropylene  | USPAT                        | AND              | ON      | 2006/09/28 10:45 |
| S10   | 133667 | S6 and polypropylene or polystyrene                                       | USPAT                        | AND              | ON      | 2006/09/28 10:45 |
| S11   | 13     | S9 and polystyrene  | USPAT                        | AND              | ON      | 2006/09/28 10:58 |
| S12   | 7      | S9 and water seal   | USPAT                        | AND              | ON      | 2006/09/28 10:58 |
| S13   | 2380   | "136"/\$.ccls. and (frame and u shape)                                    | USPAT                        | OR               | OFF     | 2006/09/28 11:11 |
| S14   | 759    | "136"/\$.ccls. and frame  | USPAT                        | OR               | OFF     | 2006/09/28 11:11 |
| S15   | 71     | S14 and "u shaped"  | USPAT                        | OR               | OFF     | 2006/09/28 15:41 |
| S16   | 0      | "316"/\$ and ((edge\$2 near4 seal\$5) with (rubber\$2 and protrusion\$1)) | USPAT                        | OR               | ON      | 2006/09/28 15:43 |
| S17   | 10     | (edge\$2 near4 seal\$5) with (rubber\$2 and protrusion\$1)                | USPAT                        | OR               | ON      | 2006/09/28 15:48 |
| S18   | 42     | (edge\$2 near4 seal\$5) with (rubber\$2 and rib\$2)                       | USPAT                        | OR               | ON      | 2006/09/28 15:59 |
| S19   | 102    | (edge\$2 near4 seal\$5) with (rubber\$2 and rib\$2)                       | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2006/09/28 16:00 |
| S20   | 16194  | S19 and (solar near4 cell) or photovoltaic                                | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2006/09/28 16:01 |
| S21   | 31095  | solar near0 cell or photovoltaic  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2006/09/28 16:03 |
| S22   | 31095  | (solar near0 cell) or photovoltaic  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2006/09/28 16:03 |
| S23   | 30881  | "solar cell" or "solar cells" or photovoltaic                             | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2006/09/28 16:03 |

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|     |         |   |                              |     |    |                  |
|-----|---------|---|------------------------------|-----|----|------------------|
| S24 | 25      | S23 and ((edge\$2 near4 seal\$5) with (rubber\$2 rib\$2))   | US-PGPUB;<br>USPAT;<br>USOCR | OR  | ON | 2006/09/28 16:05 |
| S25 | 128114  | sheath grapper  | US-PGPUB;<br>USPAT;<br>USOCR | OR  | ON | 2006/09/29 09:09 |
| S26 | 1432659 | plastic sheath grapper  | US-PGPUB;<br>USPAT;<br>USOCR | OR  | ON | 2006/09/29 09:09 |
| S27 | 0       | "plastic sheet grapper"   | US-PGPUB;<br>USPAT;<br>USOCR | OR  | ON | 2006/09/29 09:10 |
| S28 | 0       | grapper with (plastic or rubber)  | US-PGPUB;<br>USPAT;<br>USOCR | OR  | ON | 2006/09/29 09:11 |
| S29 | 30940   | holder with (plastic or rubber)   | US-PGPUB;<br>USPAT;<br>USOCR | OR  | ON | 2006/09/29 09:15 |
| S30 | 23753   | (plastic or rubber) with (clamp or clasp)   | US-PGPUB;<br>USPAT;<br>USOCR | OR  | ON | 2006/09/29 09:17 |
| S31 | 11376   | (plastic or rubber) clamp with (protrusion or projection or teeth or rib)   | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON | 2006/09/29 09:20 |
| S32 | 26535   | (plastic or rubber) (clamp or graper or holder or clasper) with (protrusion or projection or teeth or rib)                        | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON | 2006/09/29 09:25 |
| S33 | 27442   | (plastic or rubber) (clamp or graper or holder or clasp) with (protrusion or projection or teeth or rib)                          | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON | 2006/09/29 09:22 |
| S34 | 18046   | (plastic or rubber)(sheet or, plate)(clamp or graper or holder or clasper) with (protrusion or projection or teeth or rib)        | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON | 2006/09/29 09:27 |
| S35 | 18053   | (plastic or rubber)(sheet or plate or slap)(clamp or graper or holder or clasper) with (protrusion or projection or teeth or rib) | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON | 2006/09/29 09:29 |
| S36 | 44248   | (plastic or rubber)edge\$2 (holder or grapper or seal\$5 or clamp) with (protrusion or projection or teeth or rib)                | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON | 2006/09/29 09:46 |
| S37 | 218281  | edge\$2 fastener  | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON | 2006/09/29 09:47 |

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|     |        |  |                              |     |     |                  |
|-----|--------|--|------------------------------|-----|-----|------------------|
| S38 | 643234 | edge\$2 seal\$5  | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 09:48 |
| S39 | 113059 | edge\$2 near4 seal\$5  | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 09:48 |
| S40 | 2226   | plastic\$1 near4 edge\$2 near4 seal\$5                                     | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 09:49 |
| S41 | 27     | (plastic\$1 near4 edge\$2 near4 seal\$5) with (protrusion or teeth or rib) | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 10:45 |
| S42 | 561    | "136"/\$ and EVA   | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 11:26 |
| S43 | 0      | EVA near solar cell near EVA near weather resistance                       | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 10:57 |
| S44 | 0      | solar near module\$1 near additive\$1 near "magnesium silicate"            | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 11:27 |
| S45 | 92425  | magnesium silicate   | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 11:27 |
| S46 | 247    | "136"/\$ magnesium silicate  | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 11:28 |
| S47 | 36     | "136"/\$ magnesium near silicate   | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 11:38 |
| S48 | 0      | porous near structur\$4 near yellowing                                     | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 11:39 |
| S49 | 987    | porous additive yellowing  | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 11:39 |
| S50 | 499    | S49 and ultraviolet  | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 11:41 |
| S51 | 158    | S50 and magnesium silicate   | US-PGPUB;<br>USPAT;<br>USOCR | AND | ON  | 2006/09/29 11:49 |
| S52 | 1      | ("4401839").PN.  | USPAT;<br>USOCR              | OR  | OFF | 2006/09/29 12:01 |
| S53 | 1      | ("4638111").PN.  | USPAT;<br>USOCR              | OR  | OFF | 2006/09/29 12:43 |

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|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S54 | 1   | (magnesium adj silicate) and yellowing and (ultraviolet adj resistant) | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/09/29 12:45 |
| S55 | 3   | (magnesium adj silicate) and (ultraviolet adj resistant)               | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/09/29 12:47 |
| S56 | 487 | (magnesium adj silicate) and yellowing                                 | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/09/29 14:05 |
| S57 | 6   | (magnesium adj silicate) and yellowing and solar near5 cell            | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/09/29 14:07 |
| S58 | 0   | "316"/\$.ccls. and solar near0 cell near0 module and EVA               | USPAT   | OR | ON  | 2006/10/02 09:36 |
| S59 | 0   | "316"/\$.ccls. and (solar adj cell adj module) and EVA                 | USPAT   | OR | ON  | 2006/10/02 09:36 |
| S60 | 0   | "316"/\$ and (solar adj cell adj module) and EVA                       | USPAT   | OR | ON  | 2006/10/02 09:36 |
| S61 | 241 | "136"/\$.ccls. and (solar near cell near module) and EVA               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/10/02 10:13 |
| S62 | 2   | ("6528718").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/10/02 11:12 |
| S63 | 13  | "136"/\$.ccls. and (magnesium adj silicate)                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/10/02 11:30 |
| S64 | 4   | "136"/\$.ccls. and (magnesium adj silicate)and additive                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/10/02 11:32 |
| S65 | 4   | "136"/\$.ccls. and (magnesium adj silicate)and additive                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/10/02 11:36 |

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|     |         |   |   |    |     |                  |
|-----|---------|---|---|----|-----|------------------|
| S66 | 23117   | magnesium adj silicate                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/10/02 11:37 |
| S67 | 1663448 | S66 and solar cell                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/10/02 11:38 |
| S68 | 66      | S66 and (solar adj cell)                        | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/10/02 11:44 |
| S69 | 2083    | (magnesium adj silicate) and elastomer          | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/10/02 11:46 |
| S70 | 1       | S69 and (ultraviolet adj resistant)             | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/10/02 12:02 |
| S71 | 1       | ("5476553").PN.                                 | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2006/10/02 12:06 |
| S72 | 1004    | (magnesium adj silicate) and discoloration      | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2006/10/02 16:04 |
| S73 | 1260186 | JP "2001230440"                                 | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2006/10/02 16:05 |
| S74 | 1       | ("7012188").PN.                                 | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2006/10/03 16:11 |
| S75 | 1       | ("4830038").PN.                                 | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2006/10/03 16:11 |
| S76 | 604     | (magnesium adj silicate) and discoloration      | USPAT   | OR | ON  | 2006/10/05 10:10 |
| S77 | 9       | S76 and EVA                                     | USPAT   | OR | ON  | 2006/10/05 10:54 |
| S78 | 10      | thermoplastic adj elastomer and EPDM/PP and SIS | USPAT   | OR | ON  | 2006/10/05 10:57 |
| S79 | 1649    | magnesium adj silicate and ultraviolet          | USPAT   | OR | ON  | 2006/10/05 10:58 |
| S80 | 2595    | (magnesium adj silicate) and (ultraviolet UV)   | USPAT   | OR | ON  | 2006/10/05 10:58 |
| S81 | 427     | S80 and (frame seal)                            | USPAT   | OR | ON  | 2006/10/05 10:59 |

## EAST Search History

|     |     |  |                              |    |     |                  |
|-----|-----|--|------------------------------|----|-----|------------------|
| S82 | 94  | S81 and (discoloration bleeding yellowing)                           | USPAT                        | OR | ON  | 2006/10/05 11:03 |
| S83 | 18  | S82 and EVA  | USPAT                        | OR | ON  | 2006/10/05 14:14 |
| S84 | 67  | ultraviolet-resistant  | USPAT                        | OR | ON  | 2006/10/05 14:20 |
| S85 | 0   | "I67" and magnesium adj silicate                                     | USPAT                        | OR | ON  | 2006/10/05 14:14 |
| S87 | 0   | (magnesium adj silicate) and ((ultraviolet adj resistant adj agent)) | USPAT                        | OR | ON  | 2006/10/05 14:19 |
| S88 | 0   | (magnesium adj silicate) and ((ultraviolet adj resistant))           | USPAT                        | OR | ON  | 2006/10/05 14:20 |
| S89 | 0   | S84 and EVA  | USPAT                        | OR | ON  | 2006/10/05 14:21 |
| S90 | 304 | (ultraviolet adj resistant)  | USPAT                        | OR | ON  | 2006/10/05 15:21 |
| S91 | 6   | S90 and EVA  | USPAT                        | OR | ON  | 2006/10/05 14:21 |
| S92 | 1   | (ultraviolet adj resistant adj agent)                                | USPAT                        | OR | ON  | 2006/10/05 15:07 |
| S93 | 102 | S90 and agent  | USPAT                        | OR | ON  | 2006/10/05 15:22 |
| S94 | 1   | ("6528718").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/10/13 09:32 |
| S95 | 2   | ("3455080").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/10/13 09:33 |
| S96 | 1   | ("5482571").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/10/13 09:33 |
| S97 | 1   | ("5414030").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/10/13 09:34 |
| S98 | 1   | ("6073936").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/10/13 09:34 |